

```

/*
    GOPIKRISHNA V
    52
    S3 CSE A
    Quick Sort
*/
import java.util.*;
public class pgm12
{
    public static void quickSort(String A[], int p, int r)
    {
        if (p < r)
        {
            int q = partition (A, p, r);
            quickSort (A, p, q - 1);
            quickSort (A, q + 1, r);
        }
    }
    public static int partition(String A[], int p, int r)
    {
        String x = A[r];
        int i = p - 1;
        for (int j = p; j <= r - 1; j++)
        {
            if (A[j].compareToIgnoreCase(x) <= 0)
            {
                i = i + 1;
                String temp = A[i];
                A[i] = A[j];
                A[j] = temp;
            }
        }
        String temp = A[i + 1];
        A[i + 1] = A[r];
        A[r] = temp;
        return i + 1;
    }
    public static void main(String args[])
    {
        Scanner sc = new Scanner (System.in);
        System.out.print("Enter the limit = ");
        int n = sc.nextInt();
        sc.nextLine();
        String A[] = new String[n];
        System.out.print("Enter the Values (String)\n");
        for (int i = 0; i < n; i++)
        {
            A[i] = sc.nextLine ();
        }
    }
}

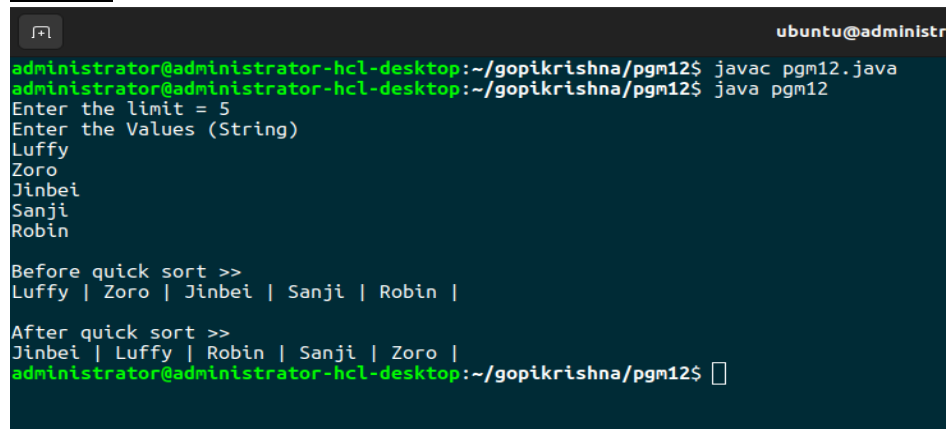
```

```

    }
    System.out.println("\nBefore quick sort >> ");
    for (int i = 0; i < n; i++)
    {
        System.out.print(A[i]+" | ");
    }
    System.out.print("\n");
    quickSort(A, 0, n - 1);
    System.out.println("\nAfter quick sort >> ");
    for (int i = 0; i < n; i++)
    {
        System.out.print(A[i]+" | ");
    }
    System.out.print("\n");
}
}

```

OUTPUT



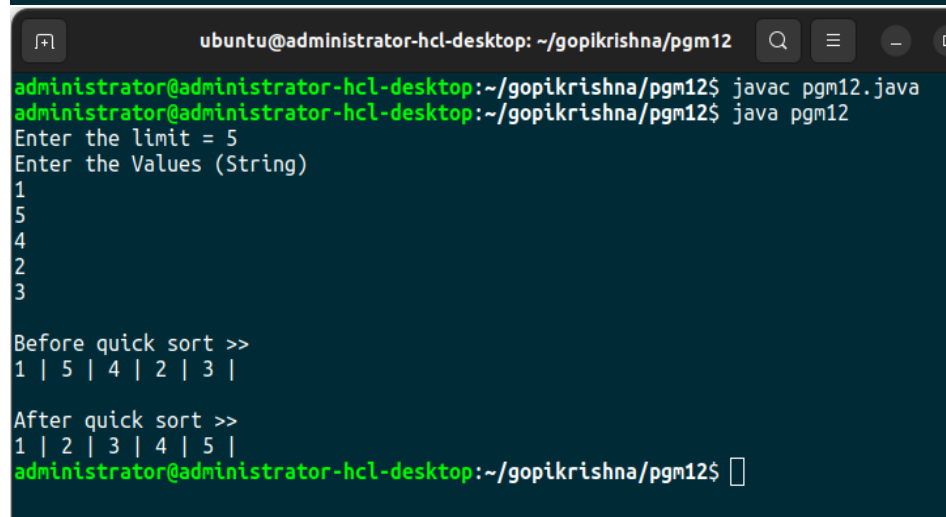
```

ubuntu@administrator-hcl-desktop: ~/gopikrishna/pgm12$ javac pgm12.java
ubuntu@administrator-hcl-desktop: ~/gopikrishna/pgm12$ java pgm12
Enter the limit = 5
Enter the Values (String)
Luffy
Zoro
Jinbei
Sanji
Robin

Before quick sort >>
Luffy | Zoro | Jinbei | Sanji | Robin |

After quick sort >>
Jinbei | Luffy | Robin | Sanji | Zoro |
ubuntu@administrator-hcl-desktop: ~/gopikrishna/pgm12$ 

```



```

ubuntu@administrator-hcl-desktop: ~/gopikrishna/pgm12$ javac pgm12.java
ubuntu@administrator-hcl-desktop: ~/gopikrishna/pgm12$ java pgm12
Enter the limit = 5
Enter the Values (String)
1
5
4
2
3

Before quick sort >>
1 | 5 | 4 | 2 | 3 |

After quick sort >>
1 | 2 | 3 | 4 | 5 |
ubuntu@administrator-hcl-desktop: ~/gopikrishna/pgm12$ 

```